

MR. LEEPER

2025-2026 Year at a Glance

		Subject: Geometry	Grade: 9 and 10		
1st Grading Period	Unit Titles/Topics	Unit Summative Assessments	Vocabulary	District/Campus Assessments	Notes/ Comments
Aug.7-Sept.11 (24 Days)	Fundamental Math Concept 1 • Number Operations • Radicals • Simplifying Expressions • Solving Equations • Graphing Linear Functions • Solving Systems of Equations	Test Fundamental Math Concept 1	geometry, logic, undefined term, defined term, postulate axiom, theorem; point, line, plane, lie on, collinear, coplanar, space, geometric figure, between, segment or line segment, ray, opposite rays, intersection; coordinate, distance, congruent segments, midpoint, bisect, segment bisector; angle, sides of an angle, vertex, interior of an angle, exterior of an angle, protractor, degrees, acute angle, right angle, obtuse angle, straight angle, congruent angles; adjacent angles, vertical angles, linear pair, complementary angles, complement, supplementary angle, supplement, angle bisector; Midpoint Formula, Distance Formula; straight edge, compass, construction, perpendicular lines, perpendicular bisector; perimeter, circumference, area; inductive reasoning, induction, conjecture, counterexample		
	Basic Constructions Ch 1: Beginning of Geometry • Points • Lines • Planes • Segments • Angles • Distance	Test Chapter 1			
	Ch 2: Intro to Proofs • Perimeter • Circumference • Area • Patterns and Inductive Reasoning	Test 1.7-2.2			
TEKS	A.2(B), A.3(C), A.3(F), A.5(A), A.5(C), A.10(A), A.11(A); G.4(A), G.5(B), G.5(C), G.1(D), G.2(A), G.6(A), G.2(B), G.11(A), G.4(C), G.5(A)				

2nd Grading Period	Unit Titles/Topics	Unit Summative Assessments	Vocabulary	District/Campus Assessments	Notes/ Comments
Sept. 15-Oct. 30 (28 Days)	Ch 2: Intro to Proofs (cont.) - Perimeter - Circumference - Area - Patterns and Inductive Reasoning - Conditional Statements - Biconditional Statements - Deductive Reasoning - Proving Theorems	Test 2.3-2.7	point, line, plane, lie on, collinear, coplanar, space, geometric figure, between, segment of line segment, ray, opposite rays, intersection; biconditional statement, good definition; deductive reasoning, Law of Detachment, Law of Syllogism; reflexive property, symmetric property, transitive property, substitution property, proof, two-column proof; paragraph proof; parallel lines, skew lines, parallel planes, parallel segments, transversal, interior angles, exterior angles, alternate interior angles, same-side interior angles, consecutive interior angles, corresponding angles, alternate exterior angles; flow proof; slope, vertical change, horizontal change, rate of change, y-intercept point, y-intercept, slope-intercept form, perpendicular lines; point-slope form, standard form, vertical lines, horizontal line		
	Honors only: Paragraph Proofs				
	Fundamental Math Concept 2 - Unit Conversions - Exponent Properties - Multiplying Polynomials - Basic Factoring Polynomials	Test Fundamental Math Concept 2			
	Ch 3: Parallel and Perpendicular Lines - Lines and Angles - Prove Lines are Parallel - Angles Formed by Transversals - Prove Theorems about Parallel and Perpendicular Lines - Coordinate Geometry: Slope of a Line - Coordinate Geometry: Equation of Lines	Test Ch 3			
TEKS	G.4(B), G.4(C), G.4(A), G.6(A), G.5(A), G.5(C), G.2(A), G.2(B), G.2(C); A2(B), A.2(C), A3(C), A10(B), A10(E)				

3rd Grading Period	Unit Titles/Topics	Unit Summative Assessments	Vocabulary	District/Campus Assessments	Notes/ Comments
Nov.3 -Dec. 18 (24 Days)	Ch 4: Triangles and Congruence - Types of Triangles - Congruent Figures - Congruent Triangles: SSS, SAS, ASA, AAS - Proofs Using Congruent Triangles - Isosceles, Equilateral, Right Triangles	Test Ch 4	triangle, vertex, sides of a triangle, adjacent sides, opposite side and angle, included side and angle, acute triangle, obtuse triangle, equiangular triangle, right triangle, scalene triangle, isosceles triangle, equilateral triangle, interior angle, exterior angle, corollary; congruent figures, corresponding sides, corresponding angles; Cpoctac; legs of an isosceles triangle, base of an isosceles triangle, vertex angle of an isosceles triangle, bases angles of an isosceles triangle, hypotenuse, legs of a right triangle; equidistant, distance from a point to a line; concurrent, point of concurrency, circumcenter of a triangle, circumscribed about, incenter of a triangle, inscribed in; median of a triangle, centroid of a triangle, altitude of a triangle, orthocenter of a triangle; midsegment of a triangle; indirect reasoning, indirect proof; polygon, vertex, n-gon, concave polygon, convex polygon, quadrilateral, regular polygon, diagonal, equilateral polygon, equiangular polygon; parallelogram, opposite sides, opposite angles, consecutive angles; rhombus, rectangle, square; trapezoid, base, leg, base angle, isosceles trapezoid, midsegment of a trapezoid, kite		
	Ch 5: Special Properties of Triangles - Perpendicular and Angle Bisectors - Bisectors of a Triangle - Medians and Altitudes - Mid-Segments - Indirect Proofs and Inequalities - Inequalities in Two Triangles	Test Ch 5			
	Constructions: Triangles	Test Ch 6			
	Ch 6: Quadrilaterals - Polygons - Parallelograms - Proving a Quadrilateral is a Parallelogram - Rhombuses, Rectangles, and Squares - Trapezoids and Kites				
TEKS	G.5(A), G.5(C), G.6(A), G.6(D), G.6(B), G.6(C), G.6(E), G.5(D)				

4th Grading Period	Unit Titles/Topics	Unit Summative Assessments	Vocabulary	District/Campus Assessments	Notes/ Comments
Jan.6-Feb. 20 <i>(28 Days)</i>	Fundamental Math Concept 3 - Factoring & Solving Quadratics Ch 7: Similarity - Ratios and Proportions - Proportion Problem Solving - Similar Polygons - Proving Triangles Similar - Geometric Mean - Additional Proportions in Triangles Ch 8: Transformations - Rigid Transformations - Translations - Reflections - Rotations - Dilations - Composition of Reflections Probability - Conditional & Permutative *PENDING WEATHER*	Test 7.1-7.3 Test 7.4-7.6 Test Ch 8	ratio, extended ratio, proportion, extremes, means, cross products; similar figures, similar polygons, extended proportion, scale factor; indirect measurement; geometric mean; transformation, preimage, image, isometry, rigid transformation; translation, composition of transformations; reflection, line of reflection, line symmetry, reflectional symmetry line of symmetry; rotation, center of rotation, angle of rotation, center of a regular polygon, symmetry, rotational symmetry; dilation, center of dilation, scale factor of a dilation, enlargement, reduction; glide reflection		
TEKS	A.10(E), A.10(D), A.10(F), A.8(A); G.7(A), G.7(B), G.8(B), G.6(C), G.8(A); G.13				

5th Grading Period	Unit Titles/Topics	Unit Summative Assessments	Vocabulary	District/Campus Assessments	Notes/ Comments
Feb. 23-April 16 <i>(29 Days)</i>	Ch 9: Right Triangles and Trigonometry - Pythagorean Theorem - Special Right Triangles - Trigonometric Ratios - Solving Right Triangles - Vectors - Law of Sines - Law of Cosines	Test Ch 9	Pythagorean triple; trigonometric ratios, sine, cosine, tangent; solving the triangle, angle of elevation, angle of depression; vector, magnitude, initial point, resultant, component form; oblique triangle, Law of Sines, ambiguous case; Law of Cosines exterior angles of the polygon, tessellation;		
	Ch 10: Area - Angle Measures of Polygons - Area of Triangles and Quadrilaterals - Area of Regular Polygons - Perimeter and Area of Similar Figures - Arc Measures, Circumference, Arc Lengths - Areas of Circles and Sectors - Geometric Probability	Test 10.1-10.4 Test 10.5-10.7	base of a parallelogram, height of a parallelogram, base of a triangle, height of a triangle, height of a trapezoid; center of a regular polygon, radius of a regular polygon, apothem, central angle of a regular polygon; scale factor; circle, center, diameter, radius, congruent circles, central angle, semicircle, minor arc, major arc, adjacent arcs, circumference, pi, concentric circles, arc length, congruent arcs; sector of a circle, segment of a circle; geometric probability		
TEKS	G.9(B), G.9(A), G10.(B), G.11(B), G.11(A), G.12(B), G.12(C)				

